
M P E R C H
(TM)

Release 3.1A John F. Collins, Biocomputing Research Unit.
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Mpserch_pp protein - protein database search, using Smith-Waterman algorithm
Run on: Tue Apr 25 13:48:45 2000: Maspar time 24.38 Seconds
Tabular output not generated. 834.844 Million cell updates/sec

Title: >US-08-956-991-11
Description: (1-1571) from US08956991A.pep
Perfect Score: 11189
Sequence: 1 MMILALSLFQSFANVFSEDL.....HSACCAKAKAKAKARCKEFS 1571

Scoring table:
PAM 150
Gap 11

Searched: 131253 seqs, 12956647 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-issued
1:5A_COMB 2:5B_COMB 3:PCT9_COMB 4:backfiles1

Statistics: Mean 38.265; Variance 226.750; scale 0.169

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description	Pred. No.
1	2081	18.6	465	2	US-08-752-	Sequence 5, Applicatio	1.19e-136
2	2071	18.5	462	2	US-08-752-	Sequence 7, Applicatio	6.27e-116
3	740	6.6	1447	3	PCT-US94-0	Sequence 2, Applicatio	8.27e-41
4	629	5.6	1018	1	US-08-408-	Sequence 6, Applicatio	4.68e-33
5	629	5.6	1018	1	US-08-408-	Sequence 6, Applicatio	4.68e-33
6	629	5.6	1018	1	US-08-408-	Sequence 6, Applicatio	4.68e-33
7	606	5.4	1018	1	US-08-452-	Sequence 2, Applicatio	1.86e-31
8	569	5.1	1911	1	US-08-348-	Sequence 5, Applicatio	6.80e-29
9	569	5.1	1911	2	US-08-800-	Sequence 5, Applicatio	6.80e-29
10	569	5.1	1911	2	PCT-US94-1	Sequence 5, Applicatio	6.80e-29
11	486	4.3	1501	2	US-08-716-	Sequence 3, Applicatio	3.52e-23
12	486	4.3	1501	2	US-08-447-	Sequence 9, Applicatio	3.52e-23
13	449	4.0	596	2	US-08-752-	Sequence 13, Applicatio	1.18e-20
14	448	4.0	612	2	US-08-752-	Sequence 11, Applicatio	1.38e-20
15	391	3.5	607	2	US-08-752-	Sequence 12, Applicatio	1.00e-16
16	381	3.4	605	2	US-08-752-	Sequence 8, Applicatio	4.71e-16
17	379	3.4	946	3	PCT-US95-0	Sequence 13, Applicatio	6.42e-16
18	361	3.2	615	2	US-08-752-	Sequence 9, Applicatio	1.03e-14
19	359	3.2	630	2	US-08-752-	Sequence 14, Applicatio	1.40e-14
20	322	2.9	478	3	PCT-US95-0	Sequence 15, Applicatio	4.03e-12
21	322	2.9	860	3	PCT-US95-0	Sequence 19, Applicatio	4.03e-12
22	322	2.9	868	3	PCT-US95-0	Sequence 21, Applicatio	4.03e-12
23	320	2.9	868	1	US-08-374-	Sequence 1, Applicatio	5.46e-12

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26	326	2.9	869	2	US-08-644-
27	282	2.5	2231	1	US-08-153-
28	262	2.3	2324	1	US-08-283-
29	262	2.3	2324	3	PCT-US95-0
30	262	2.3	2327	4	5455158-1
31	252	2.3	2386	2	US-09-016-
32	262	2.3	2446	2	US-08-551-
33	262	2.3	2446	3	PCT-US93-1
34	233	2.1	252	2	US-08-414-
35	235	2.1	287	2	US-08-414-
36	235	2.1	310	2	US-08-414-
37	235	2.1	310	2	US-08-414-
38	235	2.1	338	2	US-08-414-
39	235	2.1	338	2	US-08-414-
40	234	2.1	419	1	516935-2
41	232	2.1	549	2	US-08-836-
42	232	2.1	574	2	US-08-836-
43	234	2.1	828	1	US-08-261-
44	229	2.0	287	2	US-08-414-
45	229	2.0	304	2	US-08-414-

ALIGNMENTS

Sequence 5, Application US/08752307B

Sequence 5, Application US/08752307B

Patent No. 5952171

GENERAL INFORMATION:

APPLICANT: McCarthy, Sean A.

APPLICANT: Geering, David P.

APPLICANT: Levinson, Douglas A.

TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES

TITLE OF INVENTION: ENCODING NOVEL SECRETED OR MEMBRANE-ASSOCIATED PROTEIN

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FASTSO for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/752,307B

FILING DATE: 19-NOV-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Melkior, Ph.D., Anita L.

REGISTRATION NUMBER: 35,283

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070

TELEFAX: 617-542-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

CC	NAME/KEY:	Disulfide-bond	
CC	LOCATION:	45..94	
CC	FEATURE:		
CC	NAME/KEY:	Disulfide-bond	
CC	LOCATION:	138..191	
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CC	NAME/KEY:	Disulfide-bond	
CC	LOCATION:	243..290	
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OY	504	PASIT-PKKNTITALIAGRTTYIHCRVIGIPYISIMWKNSLLPNHROVAEENNGTKLS	562	
DQ	299	NIOLE-DEGIIECEA-ENIRGSKDHQARIYVQAFPEWVEHIINTEDVIDGSLDPWCYATG	356	
OY	563	DYQKEVDGEYTCNVLPQQLSTQSIVHTKV-PPIIQPEEPFRFSIQGVIFPCVVS	621	
DQ	357	KPIP-TIWKLKGAYH-K-G-----E----LLDYTFENACMYOCIAENTGAITYAN	403	
OY	622	GDLPTITMWDGRPIPSLGVTIDNTIDFTSSLRISIMLSMHNNNYCIAENEAAVEHQ	681	
DQ	404	AELKITLAPFFEMPMKKILLAKGGVILIECKPKAPKRFISM--SKGT---EWL-VN	457	
OY	682	SGL-IVRRPRFVVGPRRODDIYGKA-VILNCSAEGIPVPTYIMKRSKAGVQFOPIA	738	
DQ	458	-SSRLLEDGSLEINNTTRNDGDIYTCFAENNKGANKSTGT-LVITDPTRIILAPINAD	515	
OY	739	INGRIQVLSNGLILIKHYVEDSDGYLCCKVENDQADVKSMTYLTVKIPAMITSYPMTTL	798	
DQ	516	ITVGENATMQCAASDPDALDLTWSPFNFGYVIDNKEN-HYQCNFMDSGELLJINAQ	574	
OY	799	ATQGKKKECSCTAHGEKPI-IV-RHEKEDRIINPMARYLVSTREVGEEVISTLOLPLTV	856	
DQ	575	LKHARYYICTAQTIYDNSASASADLVVNRPPOPPGGLRIDRARSVALTWSGSDNHPI	634	
OY	857	REDSEGFSCHAINSYGEDRGIIQLTVGCPDPPE-TELKDVKARTITLRWTMGCDGNSPI	915	
DQ	633	SKYTQTOTLIISDDMKDAKTDPRIIEGMEARAVALDIPMKEYEFRRVATVTLRGESTI	694	
OY	916	TGYDIECKNK-SDSWDSAQRTKV-SPOLNATIIDIHPSSYTSIRMAKARIKSEPSN	973	
DQ	695	PSNRIRKTCGAAPNPAVSPVGGCGGNRELITTMAPLSREYHGNGFYIVAFKFPD-GEE	753	
OY	974	EILT-ITADEAADGPQEVHLEPISSOSIRTWKAPKKHLONGIIRGQIQIRREYSIGN	1032	
DQ	754	WK-KYTVTNPDTPGRVHKDETSPSTAFOVKAFANNKGDPYSILAVINSADAPSEAP	812	
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DQ	813	TEPVGKVVLSSSSIHVHWE---HYLEKIVESYQRYMARHADHKEEAANVOVTOSEYSARL	868	
OY	1093	ENVQAIATSPEBISTISMSLTSKEALINGILOGEFRVIYWMNLMDGELICKNTITTQPSEL	1152	
DQ	869	ENMLDPTQYFLIEVGACNSAGCPSDMIETAKRAPSQPQRILISSVNSGSRVITIWDHV	928	

QY	1153	DGLEKTYNYSIQVLATFRADQVGRSQDITFRKEDVPDGPAGVKAAMASASVNFVSW--L	12110
Db	929	VALSSTVSTGVYVLY- RPDQGHDKL-YSTHKSLTEVP- IPRDGEYVEYRAHSDGCGD	985
QY	1211	PPLNLNIIIRKYVTFCSHPPTVISEFEASPDOSFSYRIPNLISRNQYSVMVAVTSAGRG	1270
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ID	US-08-408-420A-6		
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DE	Sequence 6, Application US/08408420A		
CC	Patent No. 5731154		
CC	GENERAL INFORMATION:		
CC	APPLICANT: Reid, Robert A.		
CC	APPLICANT: Hemperly, John J.		
CC	TITLE OF INVENTION: Human Cell Adhesion Molecule and Nucleic		
CC	TITLE OF INVENTION: Acid Sequences		
CC	NUMBER OF SEQUENCES: 6		
CC	CORRESPONDENCE ADDRESSES:		
CC	ADDRESSEE: Richard J. Rodrick, Becton Dickinson and		
CC	ADDRESSEE: Company		
CC	STREET: One Becton Drive		
CC	CITY: Franklin Lakes		
CC	STATE: NJ		
CC	COUNTRY: US		
CC	ZIP: 07417		
CC	COMPUTER READABLE FORM:		
CC	MEDIUM TYPE: Floppy disk		
CC	COMPUTER: IBM PC Compatible		
CC	OPERATING SYSTEM: PC-DOS/MS-DOS		
CC	SOFTWARE: PatentIn Release #1.0, Version #1.25		
CC	CURRENT APPLICATION DATA:		
CC	APPLICATION NUMBER: US/08/408,420A		
CC	FILING DATE:		
CC	CLASSIFICATION: 435		
CC	ATTORNEY/AGENT INFORMATION:		
CC	NAME: Fugitt, Donna R.		
CC	REGISTRATION NUMBER: 32,135		
CC	REFERENCE/DOCKET NUMBER: P-2630		
CC	INFORMATION FOR SEQ. ID NO: 6:		
CC	SEQUENCE CHARACTERISTICS:		
CC	LENGTH: 1018 amino acids		
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[illegible]

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CC	TITLE OF INVENTION: FUNCTIONAL LIGANDS FOR THE AXONAL CELL	
CC	TITLE OF INVENTION: RECOGNITION MOLECULE CONTACTIN	
CC	NUMBER OF SEQUENCES: 2	
CC	CORRESPONDENCE ADDRESS:	
CC	ADDRESSEE: Pennie & Edmonds	
CC	STREET: 1155 Avenue of the Americas	
CC	CITY: New York	
CC	STATE: New York	
CC	COUNTRY: U.S.A.	
CC	ZIP: 10036-2711	
CC	COMPUTER READABLE FORM:	
CC	MEDIUM TYPE: Floppy disk	
CC	COMPUTER: IBM PC compatible	
CC	OPERATING SYSTEM: PC-DOS/MS-DOS	
CC	SOFTWARE: Patentin Release #1.0, Version #1.30	
CC	CURRENT APPLICATION DATA:	
CC	APPLICATION NUMBER: US/08/452,052	
CC	FILING DATE: 26-MAY-1995	
CC	CLASSIFICATION: 435	
CC	ATTORNEY/AGENT INFORMATION:	
CC	NAME: Coruzzi, Laura A.	
CC	REGISTRATION NUMBER: 30,742	
CC	REFERENCE/DOCKET NUMBER: 7683-075	
CC	TELECOMMUNICATION INFORMATION:	
CC	TELEPHONE: (212) 790-9090	
CC	TELEFAX: (212) 869-8864/9741	
CC	TELEX: 66141 PENNIE	
CC	INFORMATION FOR SEQ ID NO: 2:	
CC	SEQUENCE CHARACTERISTICS:	
CC	LENGTH: 1018 amino acids	
CC	TYPE: amino acid	
CC	STRANDEDNESS:	
CC	TOPOLOGY: unknown	
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Best Local Similarity	24.9%; Pred. No. 1,86e-31;	
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DQ	298 NIOLE-DELYEGCEA-ENIRGDKDQAARIYVOAFPWEHEINDREVDSGLWPCVAATG	355
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Oy	563 DVQKEVDSEBYCNVLVQPQLSTSQSVMHYKV--PPFIQPEFFRFSIGHVFIPCVVVS	621
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DQ	356 KPIP-TIRKLKGAIYH-K-G-----E----LRLYDTFEIACGYOICIANVGITVAN	402
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Oy	622 GDPIITIYMQKGRPIPGSLGVYTIDNIIDSLSRLSNLSLMHNMYTIARNEAAVYHQ	681
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DQ	457 -SSRLIMEDGSLEINNTRNDGGIYTCFAENNRKANSTGT-LYITNPTRLIAPIAD	514
	: : : : : : : : : : :	
Oy	739 LNRIQIVLNSLLIKHVVEEDSGYLICKVSDNGADVSKSMYLTVKIPAMITSYPNTTL	798
	: : : : : : : : : : :	
DQ	515 IITGENATOCASFPSLDLTFWMFNGCYVIDFNKEITHIYQRFMLDANGELLIRNA	574
	: : : : : : : : : : :	
Oy	799 ATQGCKEKNSCTAHGEKPI-TV-RWKKERIRLINPEARLVTS-TREVGEEVISLIOLIPT	855
	: : : : : : : : : : :	
DQ	575 QLNHAQRTCTACTOIVDNSASADLVYRCGPPEGGLIEDIRATSVALTWMSGDNHSP	634
	: : : : : : : : : : :	
Oy	856 VRDSDGFSCHAINSAGEBGIIQTOLVQEPDPPE-IEIKDVKARTITLIRMTMGDGNSP	914
	: : : : : : : : : : :	
DQ	635 ISKTYIOTKTIIISDDMKDKATDPTPILEGWNESAKAVDLPMWEERYVRVATVTLGES	694
	: : : : : : : : : : :	
Oy	915 ITGDIECDKKK-SDSNDSAQRTQDV--SPOLNSATIITIDIHPSSYISIRMAAKRIKSDPS	972

```

Db      695  IPSNRITDGAAPNAPSDVGGGGCTNRELITTTAPLSEHYHGNNGFYAAKFPD--G 752
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      973  NELT-ITADEAADGDPQEVHLEPISSOSIRYTWKPKKHLONGIIRGQIGREYGTGG 10311
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      753  E-EKKKTV-TNDTGKHYHKEMTPTSTAFOYKVKAKFNKKGDPYSLAVINSAODAPSE 810
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      1632 NFOENIISVDTSGDSEYTL-DLNLKFTQYGLVQACNAGTGPSSQELITTTLEDYPSY 10909
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      811  APTEVGVKVLSSSEISVH----KHVLEKIVESYQIRYAGHDKKAAAHKVO-VTSQEYSA 865
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      1091 PENVQVAAIATSPESISISWSTLSKEALNGILGCFRVIYWANIMDELGEIKNKITTPSL 11506
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      866  RLENLDPDTQYTFVQACNAGCGPSSDVLEFTRKAPSPQPPRIISVRSGSRVITMD 925
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      1151 ELDIGLEKXTYNSIYVLAFTRAGGVNSQELFTTKEDVGPAGVAAASAASMYFVS- 12095
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      926  HVALVLSNESTVTGKILY-RPDDOHQDKL-FTYHKHSIEVP-IPRDGEYVYVRAHSDG 982
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      1210 -LPRLKLTGIRKTVCSHPPIVYISFEFASPDSTSYKLPNLSRNRQYVWVAVTSG 12669
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      983  DGVSQVKNISGVSTLSSGLLSL 1005
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      1269 KGNSEI-IT-VEPLAKAPARIL 1289
              | : ||| : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT      8
ID          US-08-348-006B-5          STANDARD;          PRT;          1911 AA.
AC          xxxxxx
XX
XX
XX
De          Sequence 5, Application US/08348006B
Cc          Sequence 5, Application US/08348006B
Cc          Patent No. 5658756
Cc          GENERAL INFORMATION:
Cc          APPLICANT: RODAN, GIDEON A.
Cc          APPLICANT: SCHMIDT, AZRIEL
Cc          APPLICANT: RUTLEDGE, SU JANE
Cc          TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN
Cc          TITLE OF INVENTION: TYROSINE PHOSPHATASE
Cc          NUMBER OF SEQUENCES: 7
Cc          CORRESPONDENCE ADDRESS:
Cc          ADDRESSEE: J. MARK HAND
Cc          STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
Cc          CITY: RAHWAY
Cc          STATE: NEW JERSEY
Cc          COUNTRY: USA
Cc          ZIP: 07065-0900
Cc          COMPUTER READABLE FORM:
Cc          MEDIUM TYPE: Floppy disk
Cc          COMPUTER: IBM PC compatible
Cc          OPERATING SYSTEM: PC-DOS/MS-DOS
Cc          SOFTWARE: Patent Release #1.0, Version #1.30
Cc          CURRENT APPLICATION DATA:
Cc          APPLICATION NUMBER: US/08/348.006B
Cc          FILING DATE:
Cc          CLASSIFICATION: 514
Cc          PRIOR APPLICATION DATA:
Cc          APPLICATION NUMBER: US 08/122,032
Cc          FILING DATE: 14-SEP-1993
Cc          ATTORNEY/AGENT INFORMATION:
Cc          NAME: HAND, J., MARK
Cc          REGISTRATION NUMBER: 36,545
Cc          REFERENCE/DOCKET NUMBER: 189921A
Cc          TELECOMMUNICATION INFORMATION:
Cc          TELEPHONE: 908-594-3905
Cc          TELEPHONE: 908-594-4720
Cc          INFORMATION FOR SEQ ID NO: 5:
Cc          SEQUENCE CHARACTERISTICS:
Cc          LENGTH: 1911 amino acids

```


CC TYPE: amino acid
CC STRANDEDNESS: single
CC TOPOLOGY: linear
CC MOLECULE TYPE: protein
SO SEQUENCE 1911 AA: 213063 MW: 19256861 CN:

Query Match 5.1% Score 569; DB 1: Length 1911;
Best Local Similarity 25.6% Pred. No. 6,80e-29;
Matches 230; Conservative 217; Mismatches 379; Indels 74; Gaps 60;

Db	33	PRFIKEPK-DQIGVSGRVASFV-CQA-TGDPKPRVTMKNKGGKVNQSOREFTIEDESAGA	89
Qy	596	PPRIQPEFRFRSISGRV--FICVAVSGDLPLITTMQKGRDIPSLGATIDINIDFTSS	653
Db	90	VLRIQPLRPDENVEYECVAVNSVGEITVHAQLVLRDQLPSGFPNIDMGQLKVERI	149
Qy	654	-LRISNLSLHNGN-YTCIARNEAAVEHOSOLIV-R--VPPKTV-VQPRDQ-DGIIY-G	704
Db	150	RTATMLCAASGNPDPEITW-F-KDF-LP-VDPASANGRIKQLRSALQIESSEETDOGKY	205
Qy	705	KAVILNCSAGGYPTVTVMKFSKGAGVPOFOPIALNGRIQVLSNGLLKHVVEEDSGIY	764
Db	206	ECVATNSAGVRYSSPANLYVRVRAAPRSILPMSHEIMPGNVNTICVAVGSPMPYVKW	265
Qy	765	LCKNSNDVADVSK-S-MYLTVK-IPAMITSYPTTLATOGQKKEMSCFAHGEKPIIVRW	821
Db	266	-MGG--AE-DLTP--EDDMVGRNV--LE-LTDVKDSANYHPCVAMSLGIVLEAVAOIT	315
Qy	822	EKEDRIINPEMARLYVSTKEVGEVISTLOILPTVRSDSGFFSCHALNSYGEDRGIIQLT	881
Db	316	VKSLPRAKGPMTVENTATSIITWDSG-NPD-PVSYVIEYKXSOD-G'JIKEDITT	372
Qy	882	VOEPPDPPEIE-INDVAKARTITLMTGTFDQNSPITIGDIECKKSSMSAQRTIDVSP	940
Db	373	--TRYSIGLSPNSEYEIYVSAVNSIGGPPSESVTRTGEQAPARPPRVQARMLSAT	430
Qy	941	QLNSATIIDHPSSTYSIRMAKRIKSEPSNELITTADEAAPDGPQHVLEPISSQS	1000
Db	431	MIWOMEERV-E-PNGLIRGYRV-Y--YTMERHGVGMWQ..ANVDDSLITVGSILDETY	485
Qy	1001	IRVWAKPAKKHLQNGIIRGOIGREYSTGNGFOFNII SVDTSGDSVETLYLDNKNFTQY	1060
Db	486	TVRLAFVSGDGLDPLDIQVKTQGVPG-OPNMLRAEARSETITLSMSP-PRO-ESI	541
Qy	1061	GLVQACNRAGTGPSOGLITTTLEDVPSIPRENVQALATSPESISIMWLSKREALNGI	1120
Db	542	IK-YELLFREGDGHREVG--RTFDPY-TSYVVEDLKPNTYAFRLAARSPQGLCAFTPV	597
Qy	1121	LOGFRVIYMAWMLMGELGEIKNITTOPSLELDGLEYTNYSIOVLAFTTAGDGRSEQI	1180
Db	598	RORFLQSPASRPDDVCVSVRSTAILVSRPPETHNGALVGYSVRYRPLGSEDEPK	657
Qy	1181	FTRIKEDVPG-PPAGVYKMAAASASMYEFSW-LPDLKL-NGIIRKTYV-FCSHPYTVIS-	1235
Db	658	EVNGIPPTTIOILLEALEKMTQYRITTVAHTEVGRGPPSSVVVVRJEDVEDSAPPRVEA	717
Qy	1236	EFEA-SPDSFSYRIRPNISNRROYVWVAVTSAGRG-NSSEIT--TYEPLKAPAR-I-L	1289
Db	718	EALNATAIRVLM-RSPA-PGRHGOIRGYQVHYVR-MEGAEARGPPRIKDYMLADAQEMV	774
Qy	1290	-TFSTQ-VTTMMMDIYLPCKAVQDPSR-AVKMMKDSNGTSLVITDGRSRIFSNG-SFI	1345
Db	775	ITNLOPE-TAVSIVAAVTMKGDCARKPKVYVTKGAVLGPTLSVOOTPEGSLIAWEP	833
Qy	1346	IRTVAEDESGYVCIANNMGSDELILNLQOVV-P--DQPRITVSKTSSITLSW-L	1400
Db	834	PAGTDEDVGLRLOFGREDSRPLATLEFPSEDEYRTASGVHKAATVYFRLAASPGGLG	893
Qy	1401	PEDNGCSSIRGIILOYSEDNSEOMGSFPISESESYRLNKLKGTWIKFTLITLTAANGVGP	1460

XX	AC	xxxxxx	
XX	DT		
XX	DE	Sequence 5, Application US/08800825A	
CC	CC	Sequence 5, Application US/08800825A	
CC	CC	Patent No. 5866397	
CC	CC	GENERAL INFORMATION:	
CC	CC	APPLICANT: RODAN, GIDEON A.	
CC	CC	APPLICANT: SCHMIDT, AZRIEL	
CC	CC	APPLICANT: RUTLEDGE, SU JANE	
CC	CC	TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN	
CC	CC	TITLE OF INVENTION: TYROSINE PHOSPHATASE	
CC	CC	NUMBER OF SEQUENCES: 7	
CC	CC	CORRESPONDENCE ADDRESS:	
CC	CC	ADDRESSEE: J. MARK HAND - MERCK & CO., INC.	
CC	CC	STREET: 126 E. LINCOLN AVE., P.O. BOX 2000	
CC	CC	CITY: RAHWAY	
CC	CC	STATE: NEW JERSEY	
CC	CC	COUNTRY: USA	
CC	CC	ZIP: 07065-0900	
CC	CC	COMPUTER READABLE FORM:	
CC	CC	MEDIUM TYPE: Floppy disk	
CC	CC	COMPUTER: IBM PC compatible	
CC	CC	OPERATING SYSTEM: PC-DOS/MS-DOS	
CC	CC	SOFTWARE: Patent Release #1.0, Version #1.30	
CC	CC	CURRENT APPLICATION DATA:	
CC	CC	APPLICATION NUMBER: US/08/800,825A	
CC	CC	FILING DATE: 14-FEB-1997	
CC	CC	CLASSIFICATION: 435	
CC	CC	ATTORNEY/AGENT INFORMATION:	
CC	CC	NAME: HAND, J. MARK	
CC	CC	REGISTRATION NUMBER: 36,545	
CC	CC	REFERENCE/DOCKET NUMBER: 18992DA	
CC	CC	TELECOMMUNICATION INFORMATION:	
CC	CC	TELEPHONE: 732-594-3905	
CC	CC	TELEFAX: 732-594-4720	
CC	CC	INFORMATION FOR SEQ ID NO: 5:	
CC	CC	SEQUENCE CHARACTERISTICS:	
CC	CC	LENGTH: 1911 amino acids	
CC	CC	TYPE: amino acid	
CC	CC	STRANDEDNESS: single	
CC	CC	TOPOLOGY: linear	
CC	CC	MOLECULE TYPE: protein	
CC	CC	SEQUENCE 1911 AA: 213063 MW: 19256861 CN:	
SO	SEQUENCE		
Query Match	5.1% Score 569; DB 2: Length 1911;		
Best Local Similarity	25.6% Pred. No. 6,80e-29;		
Matches	230; Conservative 217; Mismatches 379; Indels 74; Gaps 60;		
Db	33	PRFIKEPK-DQIGVSGRVASFV-CQA-TGDPKPRVTMKNKGGKVNQSOREFTIEDESAGA	89
Qy	596	PPRIQPEFRFRSISGRV--FICVAVSGDLPLITTMQKGRDIPSLGATIDINIDFTSS	653
Db	90	VLRIQPLRPDENVEYECVAVNSVGEITVHAQLVLRDQLPSGFPNIDMGQLKVERI	149
Qy	654	-LRISNLSLHNGN-YTCIARNEAAVEHOSOLIV-R--VPPKTV-VQPRDQ-DGIIY-G	704
Db	150	RTATMLCAASGNPDPEITW-F-KDF-LP-VDPASANGRIKQLRSALQIESSEETDOGKY	205
Qy	705	KAVILNCSAGGYPTVTVMKFSKGAGVPOFOPIALNGRIQVLSNGLLKHVVEEDSGIY	764
Db	206	ECVATNSAGVRYSSPANLYVRVRAAPRSILPMSHEIMPGNVNTICVAVGSPMPYVKW	265
Qy	765	LCKNSNDVADVSK-S-MYLTVK-IPAMITSYPTTLATOGQKKEMSCFAHGEKPIIVRW	821
Db	266	-MGG--AE-DLTP--EDDMVGRNV--LE-LTDVKDSANYHPCVAMSLGIVLEAVAOIT	315
Qy	822	EKEDRIINPEMARLYVSTKEVGEVISTLOILPTVRSDSGFFSCHALNSYGEDRGIIQLT	881
Db	316	VKSLPRAKGPMTVENTATSIITWDSG-NPD-PVSYVIEYKXSOD-GPYOIKEDITT	372

QY 1290 -TSGT-VTPPMKDLVLPCKAVGDPSP-AVKMKDSNGPPLVTIDGRSIFSNQ-SFI 1345
DB 775 ITNLOPE-TAYSTVAAYTKGCGARSKPVVYTKAVLCRPLTSVOQPEGLLARMP 833
QY 1346 IRTVAKEDSGYSCYICANNMNSDEIILNLOVVP--P--DQPLRTVSKTSSITLSM-L 1400
DB 834 PAGNAEDOVGYRLOFGREDSTPLATLEPPPSSEDRYTAGCVHKATYVRLAARSPGLG 893
QY 1401 PGDNGSSINGYILOYSEDNSEOMGSPFISPSRSTRLENKCGTWKXFTLTQNGVGRG 1460

RESULT 11
ID US-08-716-679-3 STANDARD: PRT: 1501 AA.
XX xxxxxx
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DE Sequence 3, Application US/08716679
XX
CC Sequence 3, Application US/08716679
CC Patent No. 5846800
CC GENERAL INFORMATION:
CC APPLICANT: Schlessinger, Joseph
CC APPLICANT: Yan, Hai
CC TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN
CC TITLE OF INVENTION: PHOSPHOTYROSINE PHOSPHATASE-SIGMA
CC NUMBER OF SEQUENCES: 12
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Pennie & Edmonds
CC STREET: 1155 Avenue of the Americas
CC CITY: New York
CC STATE: New York
CC COUNTRY: U.S.A.
CC ZIP: 10036-2711
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC OPERATING SYSTEM: IBM PC compatible
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/716,679
CC FILING DATE:
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: US/08/130,570
CC FILING DATE:
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Mastrock, S. Leslie
CC REGISTRATION NUMBER: 18,872
CC REFERENCE/DOCKET NUMBER: 7683-043
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 212-790-9090
CC TELEFAX: 212-869-8864/9741
CC TELEX: 66141 PENNIE
CC INFORMATION FOR SEQ. ID NO: 3:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 1501 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC MOLECULE TYPE: protein
CC SEQUENCE 1501 AA: 168336 MW: 11919615 CN:

Query Match 4.38; Score 486; DB 2; Length 1501;
Best Local Similarity 26.8%; Pred. No. 3.52e-23;
Matches 163; Conservative 147; Mismatches 249; Indels 50; Gaps 40;

DB 52 FV-CQA-TGDPKPVYTKGCGARSKPVVYTKAVLCRPLTSVOQPEGLLARMP 109
QY 614 IRTVAKEDSGYSCYICANNMNSDEIILNLOVVP--P--DQPLRTVSKTSSITLSM-L 1400
DB 110 QNSVGEITVHAKLTFLREDQLPGFPNIDMGPOQLVVERTRTATMLCAASGNDPPEITW- 168

QY 672 RNEAAVHQSOLIV-R---VPPKFTV-VQPRDQ-DGIV-GKAVILNCSAGYVPVITWMK 724
DB 169 F-KDF-LP-VPPSASNGIKNOLRSGALQIESSEETDQGEKCVATNAGVRYSSPALYV 225
QY 725 FSKGAVQFQPIALNGIOLVLSNGSLIKHVEEDSGYLCCKNSDVGADVSK-S-MYL 782
DB 226 RVRRAVPPFSLPMSHEIMPGNVITCVAVGSPMPVYKM-MQG--AE-DLTP--EEDMP 279
QY 763 TVK-IPAMITSPYPTTLATOGQKKEASCI-AHGEKPIYRMKEEDRIINPEMARLVSTKE 841
DB 280 VGRNV--LE-LTDVKDSANY--TCVAMSSLGIVEAQAIVKSLPKAPGPPVYNTENTATS 334
QY 842 VGEVYSTIQLPTVREDSGFSCHAINSYGEDRGIIQLFTVQEPDPPEIEI-KDVART 900
DB 335 ITVWDSG-NPD-PVSYVIEYKSKSD-CGYQIKEDITT--TYSIGGLSPNSEYEIMV 389
QY 901 ITRMTMGFDNSPITGYDIECKNKSDSDSAQRTKVDSPOLNSATIIDHPSSTYSIRM 960
DB 390 SAVNSIGGPPSESVYTRTGQAPASAPRNVQARMLSATMIVOMEPPV-E-PNGLIRGY 447
QY 961 YAKNRIGKSEPSNELTITADAPDGPQEVHLEPISQSIRYWKAPKKHLONGIIRGY 1020
DB 448 RY-Y--VTMEPBHPVGNQKHNVDSLLTTVYGSLEDETYTVRVLAFTSVGDGPLSDPIO 504
QY 1021 QIGYREYSTGCFNFIISVDTSGBSEYVYTLNINKEFTQYGLVQACNRAQTGSSOEII 1080
DB 505 VKTQGVPG-QPMNIRAKSETSIGLSMSA-PRO--ESYK-YELFREDDRRREG-- 557
QY 1081 TTTLEDVPSYPENVOATSPESISISWTLSEALNGILOGRVRVYMANLDGELGEI 1140
DB 558 RTFDPY-TAFVVEDKPTVEYAFRLAARSPGLGAFYAVVHOFLOAISPKNFYKIM- 615
QY 1141 KITTQPSLELDGLEXKTYNSIQVLATFRAGDGVRSQITTRKEDVPGPACVAKMAA 1200
DB 616 KTS-VLSM 623
QY 1201 SASWVFSM 1209

RESULT 12
ID US-08-447-464-3 ST. IDARD: PRT: 1501 AA.
XX xxxxxx
XX
XX
DE Sequence 3, Application US/08447464
XX
CC Sequence 3, Application US/08447464
CC Patent No. 5840842
CC GENERAL INFORMATION:
CC APPLICANT: Schlessinger, Joseph
CC APPLICANT: Yan, Hai
CC TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN
CC TITLE OF INVENTION: PHOSPHOTYROSINE PHOSPHATASE-SIGMA
CC NUMBER OF SEQUENCES: 12
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Pennie & Edmonds
CC STREET: 1155 Avenue of the Americas
CC CITY: New York
CC STATE: New York
CC COUNTRY: U.S.A.
CC ZIP: 10036-2711
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC OPERATING SYSTEM: IBM PC compatible
CC SOFTWARE: Patentin Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/447,464
CC FILING DATE: 24-May-1995
CC CLASSIFICATION: 435

CC PRIOR APPLICATION DATA:
 CC APPLICATION NUMBER: 08/130,570
 CC FILING DATE: 01-OCT-1993
 CC ATTORNEY/AGENT INFORMATION:
 CC NAME: Mistrock, S. Leslie
 CC REGISTRATION NUMBER: 18,872
 CC REFERENCE/DOCKET NUMBER: 7683-043
 CC TELECOMMUNICATION INFORMATION:
 CC TELEPHONE: 212-790-9090
 CC TELEFAX: 212-869-8864/9741
 CC TELEX: 66141 PERNIE
 CC INFORMATION FOR SEQ ID NO: 3:
 CC SEQUENCE CHARACTERISTICS:
 CC LENGTH: 1501 amino acids
 CC TYPE: amino acid
 CC TOPOLOGY: linear
 CC
 CC MOLECULE TYPE: protein
 CC
 CC SEQUENCE 1501 AA: 168336 MW: 11919615 CN:

Query Match	4.38; Score 486; DB 2: Length 1501;
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Matches 163; Conservative 147; Mismatches 249; Indels 50; Gaps 40;

Db	52	FV	COA	-IGDPKPRVTYMKKKKXKNNSQFEIIDPDESSGATLRIQPLRPDENVEYCA	109
Oy	614	FICPVVSGDDPLITITWCKDRPIPGSLGVITIDNIDFIS-LRISNLSLMNGN-VYCIA	671		
Db	110	ONSVEITVHAUKLVLREDOLPGCFPNIDMOPOLKUYERFTATAMLCAASGNBPPEITW	168		
Oy	672	RNEAAVAEHOSLLIV-R---VPRKV-VQRPDQ-DGII-GCAVILNCSABEYPIVPIYWK	724		
Db	169	F-KDF-LP-VDPSSANGRIKOLRSCALOIESSEETDOCKYECVATNSAGVYSSPAULY	225		
Oy	725	FSKGAGVQFOFPIALNGRIQVLSNGLIKHVEEDSGYLYCKKNSDVGADVSK-S-MYL	782		
Db	226	RVRBARPFSLIPMSHEITMPCGNVITCVAGSGPMPIYKM-MQG--AE-DLTP--EDDMP	279		
Oy	783	TVK-IPAMITSPNTTLTQOQKREMSCTANGEXPIYRMEKEDRIINPEARLYSTKE	841		
Db	280	VGRNV--LE-LTDVKDSANY-TCVAMSSLVIEAVALIYKSLPKRAGPVTENTATS	334		
Oy	842	VGEEVITLQILPTVREDSGFFSCHAINSYEDRGIIOLTVQEPDPPEIIDI-KDVART	900		
Db	335	ITVYMDSG-NPD-PVSYVIEYKSKSD-GRYQIKEDITT--TRYSIGLSNPEYEIYW	389		
Oy	901	ITLRMTMFDFGNSPIGTGDIACKKNSDSWDAQRTKDVSPOLNSATITIDHPSSTYSIRM	960		
Db	390	SAVNSIGGPFSESVVTRTGEOPASAPRNOARMLATIMIVOMEERV-E-PGLIRGY	447		
Oy	961	YAKNITIGSEPSNELTITADEAPRPGQVHLEPISSOSI-?YIMKAKKMLONGIIRGY	1020		
Db	448	RV-Y--YTMEREPHYGNOKHVNDDSLITVGSLEDETYVRVLAFITVGDGPLSDPIQ	504		
Oy	1021	OIGYREYSTGNIJFNISIVDTSJGSEYVITLNLKFTQYGLVQACNRAGTGPSSOEII	1080		
Db	505	VKTQGVGC-QP4NLRARAKSPTSIGLSMSA-PRQ--ESVJK-YELLPRREGDGRGVS-	557		
Oy	1081	TTTLEDVSPYPERNOALITSPESISISMSTUSKALNGIIGGFVITWMLMDGELGEI	1140		
Db	558	RTFDEPT-TAFVVEDLKPRTEYAFRLAARSPOGLGAFITVVBHORTLOAISPNFKYKIM-	615		
Oy	1141	KNITITQPSLELDGLEKXTNYSIOVLAPTRBAGDGVRSQIFRTREDBVGPAGYKAAAA	1200		
Db	616	KTS-VLLSW 623			
Oy	1201	SASWVFSW 1209			
RESU	T	13			
ID	US-08-752-307B-13	STANDARD:	PRT:	596	AA.
XX	xxxxxx				

Dt	
Xx	Sequence 13, Application US/08752307B
De	
Cc	Sequence 13, Application US/08752307B
Cc	Patent No. 5952171
Cc	GENERAL INFORMATION:
Cc	APPLICANT: McCarthy, Sean A.
Cc	APPLICANT: Gearing, David P.
Cc	APPLICANT: Levinson, Douglas A.
Cc	TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES
Cc	TITLE OF INVENTION: ENCODING NOVEL SECRETED OR MEMBRANE-ASSOCIATED PROTEIN
Cc	NUMBER OF SEQUENCES: 14
Cc	CORRESPONDENCE ADDRESSES:
Cc	ADDRESSEE: Fish & Richardson, P.C.
Cc	STREET: 225 Franklin Street
Cc	CITY: Boston
Cc	STATE: MA
Cc	COUNTRY: US
Cc	ZIP: 02110-2804
Cc	COMPUTER READABLE FORM:
Cc	MEDIUM TYPE: Diskette
Cc	OPERATING SYSTEM: IBM Compatible
Cc	SOFTWARE: FastSeq for Windows Version 2.0
Cc	CURRENT APPLICATION DATA:
Cc	APPLICATION NUMBER: US/08/752,307B
Cc	FILING DATE: 19-NOV-1996
Cc	CLASSIFICATION: 435
Cc	PRIOR APPLICATION DATA:
Cc	APPLICATION NUMBER:
Cc	FILING DATE:
Cc	ATTORNEY/AGENT INFORMATION:
Cc	NAME: Melkijohn, Ph.D., Anita L.
Cc	REGISTRATION NUMBER: 35,283
Cc	REFERENCE/DOCKET NUMBER: 09404/020001
Cc	TELECOMMUNICATION INFORMATION:
Cc	TELEPHONE: 617-542-5070
Cc	TELEFAX: 617-542-8906
Cc	TELEX: 200154
Cc	SEQUENCE CHARACTERISTICS:
Cc	LENGTH: 596 amino acids
Cc	TYPE: amino acid
Cc	TOPOLOGY: linear
Cc	MOLECULE TYPE: protein
SQ	SEQUENCE 596 AA: 65965 MW: 1871085 CN:
	Query Match 4.0%; Score 449; DB 2; Length 596;
	Best Local Similarity 23.8%; Pred. No.1,18e-20;
	Matches 134; Conservative 138; Mismatches 260; Indels 32; Gaps 29;
Db	
44	KITLNCSEARGNPSHYRWOLNGSDIDTSLDHRKYLGNLIYINPRMMDGSGYCFATN 103 :: : :
241	RVELPCALGHREDPYR-W-LKD-NMPLELSGRQRKTVTGLIEN-I RPSDSGSVECVSN 297 : : : : : : : : : : : : : : :
104	SLGTIVSRAKIQFALENFKSMRS-R-VSREGGCYVLICGPPPHSGELSTAWWNEIRP 162
298	RYGT-AKVIGRL-YV-KQLPKATISPRKWSSVSQSVSLSCSVTG-TEDOELSW-YRNGE 352
Db	
163	SYVEDSRFRVSOETCHLYIAKEPSPDVQNVCVTSJTANARVLCSPTPLVLRSDGVMG 222
353	IILPGNNVAITGINHNHLLIMDHVKSDGAYQCFFVRKKDLISADY-VQVVLEDGTRKIIS 411 : : : : : : : : : : : : : : :
Db	
223	EYEPEKLIOF-BEPLD-AAKGSTVKLECFALGN-PVPQJNMRRSDGMPEPTKIKLKRFNG 279
412	AESEKVVSAEPVSLCANKGTPLPTITWLDDPDILKGGSHRISOM-IYSEGNNVYS-- 468
Db	
280	VIEIFPFODEDGSGYCIIENSCKNVAVARGRLTYAAKPWWOLLKVERTAIVEDSLWECR 339
469	-LNISSÖVRDGDGYRCLTNMNSAGVIYYOARIIVRG-PASIRPMKITAIAGADDTYIHCR 526
Dt	
340	ASGKRPSPSYRWLNKGDAVLEER-IQIEN-GALLIANL-NVSDSGMFQCIARENKHGI IYS 396

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Query Match 4.0%; Score 449; DB 2; Length 596;
Best Local Similarity 23.8%; Pctid. No. 118e-20;
Matches 134; Conservative 138; Mismatches 260; Indels 32; Gaps 29;

Db      44 KITLNEARGNSPHRYMOLNGSDIDTSLDHRKILNGNLIYINPRNRMDTSGYCFATN 103
      :: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY     241 RVELPCKALGHEPDYRW-LKD-NMPELISGRQKVTGTLLIEN-IRPSDSGYSVEVSN 297
      SGTIVSREAKIOFAYLENFKSRMSR-YSVREGQGVLLCGPPHSGELSYAMVENEY 162
QY     298 RGT-AKVIQRL-YV-KQPLKATISPRKVKSSVSGVSLSCSTG-TEDQELSM-YRNGE 352
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      163 SFVEDSRRFVSOETGHLIYIAKVEPSDVGNYTCVHTSTVNAVLGSPPLVLRSQVMG 222
QY     353 INPGKNVIRITGINHENLIMDHVKKSDGAYOCFVRRKDKLSADY-VQVLEEDGTPKIIS 411
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      223 EYEPKLEOF-PEILP-AKGSIVKLECFALGN-PPQJINMRSRSDMPPTKIKIKRNG 279
QY     412 ASESEKVASPAEPLSLMCNVKGTPLPTITWLTDDPILKGSRIISOM-ITISEGNVSY-- 468
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      280 VEIEPFOEDTGSYECIAENSGKRVNAGRLTYAYAKPWOLKIVETAVEDSLWEYCR 339
QY     469 -LNISSQVRDGSVYCTANNNSAGVLYQARIIVRG-PASIRPKMITALAGADTYIHCR 526
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      340 ASGKPKSYRWLKNGDALVLEER-IQIEN-GALLIANL-NVSDSGMFQCIANKHGIIYS 396

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CC OPERATING SYSTEM: Windows95
CC SOFTWARE: FASTSEQ for Windows Version 2.0
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/752,307B
CC FILING DATE: 19-NOV-1996
CC CLASSIFICATION: 435
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER:
CC FILING DATE:
CC ATTORNEY/AGENT INFORMATION:
CC NAME: Meiklejohn, Ph.D., Anita L.
CC REGISTRATION NUMBER: 35,283
CC REFERENCE/DOCKET NUMBER: 09404/020001
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 617-542-5070
CC TELEFAX: 617-542-8906
CC TELEX: 200154
CC INFORMATION FOR SEQ ID NO: 12:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 607 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC MOLECULE TYPE: protein
CC SEQUENCE 607 AA; 66494 MM; 1857918 CN;
SQ

Query Match 3.5%; Score 391; DB 2; Length 607;
Best Local Similarity 25.8%; Pred. No. 1,00e-16;
Matches 129; Conservative 121; Mismatches 208; Indels 42; Gaps 39;

Db 58 LACRARAAPPATYRMKNKNGTEMKLE-PSGRHQLVGNL-VI-MNPTK-AQ--DAGVYQC 111
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 43 LVPCPAAGIPPTVLATGEIYDVGIRHVHNGTLQIFPPSPSSFTLIDHNTYYC 102
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 112 LASNPVGTIVSREALRRCFIOE--FS-K-EERDPYKAHEG-WGVMLPCNPPAHYPGLSYR 167
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 103 TAENPSGKIRSDVHIK-AVLEPTIVRVEDQKTRGNVAVFKCIIPSSVEA-YITVV-S 159
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 168 WLLNFPNFIPTDGRHFVSQTTGNLYI-ARTNASDLGNYSCLATSHMDFSTKSVSKFAQ 226
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 160 WE-KDTVSLV--SGSR-FLITSGALYIKDVONEDGLYVRCI-TRHR-YTGETROSN SAR 214
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 227 LNLAEEDTRLPAPSIKARFPAETALVGOQVTLGCFAGNPVPRIKVRKV-D-G-SLSPQW 284
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 215 L-FVSDPAN-SAPSIIDGFDHRR-AMAGORVELPCKALGHPEDPYRWLKDNPPLSLGRF 271
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 285 TTAEPFLIIPSVSEFEDEGTCEAENSGKRDIVOGRIIVQAQPEWLKVIS-DTEADIGSN 343
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 272 OKTVTGLLENIRPSDSGSIVCEVSNRYGTAKVIGRLYK-QPLKATISPRKVSWSQ 330
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 344 LRMGCAAGKPRPTVRLNREPL-ASQN-RVEVLA-GDLRFSKLSLEDGMYQC-VAEN 399
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 331 VLSGCVTGTEDQELSWYRNGEILNPKKNVRITGINHENLIMDHVKSDBGAYOCFYRKD 390
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 400 KUGTTIASAEALVAQALADPRLNPLPARGELLIPQAPRAAPKAVYVLSKGTG-I 458
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 391 KLSAQ-DYVQVVLLEDGTPKIIISAFSEKVSPEVPS-LM-CNVKGTPLPTITWLD DDP 447
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 459 LYNSS-RVT--VTPOGTLII-RNISRS-D--EGK-YTCAENFMGRANSTGILSVADATKI 511
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 448 LKGGSHRISQMTTSEGNNVSYLINISSQVRDGGYRCTANNSAGVVLQOARINVRGPASI 507
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 512 TLAPSSA-INLGDNLTLQCH 531
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Oy 508 RPKMNTITATA-GRDTYIHR 526
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

Search completed: Tue Apr 25 13:49:26 2000
Job time : 41 secs.